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SESSION Session 2: Performance evaluation

TYPE Presentation

TITLE SLR error sources in the kHz repetition era: How should we improve the range measurement and the products?

ABSTRACT

We present various error sources in SLR and its behaviour in orbit determination analyses. In particular, we focus on what the laser ranging community should do to improve the normal-point accuracy in both conventional and kHz systems. Random error will cancel out if one obtains large number of observations, but systematic error remains and easily maps the geodetic products. Based on a quality check analysis of the last 12 months, we discuss what component causes what sort of error, and we hope to exchange ideas with the audience.